

# OPERATOR'S MANUAL

MOWER DRIVEN  
VACUUM COLLECTOR

36" BLOWER ASSEMBLY  
MFG. NO. 1691356

42" & 48" BLOWER ASSEMBLY  
MFG. NO. 1691260

CART COLLECTOR  
MFG. NO. 1691525

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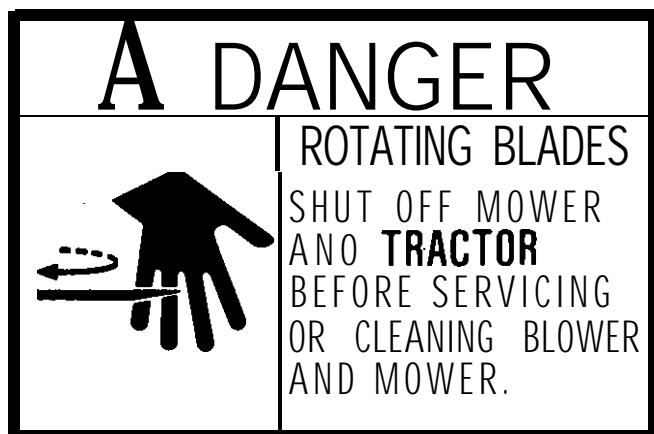
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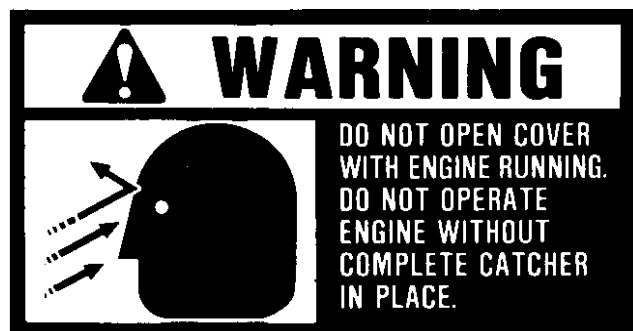
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## DECALS



Part No. 1700259. Located on Blower




Part No. 1676923. Located on Collection System,



Part No. 1700346. Located on Bracket on Some Models (Installed During Setup).

## Safety Rules



Read these safety rules and the safety rules in your Operator's Manual and follow them closely. Failure to obey these rules could result in loss of control of vehicle, severe personal injury to yourself, or damage to property or equipment. The triangle  in the text signifies important cautions or warnings which must be followed.

### WARNING

Do not operate the tractor unless the entire grass catcher system or mower discharge deflector is **properly** installed.

### WARNING

Do not remove any parts of the grass catcher while the **engine** is running.

### WARNING

Read and obey all safety warnings in your tractor **Operator's Manual**.

### WARNING

~~Under normal use, the bag is subject to wear and inspection.~~  
Under normal use, the bag is subject to wear and inspection. **Inspect the bag periodically for wear or weak spots and, if necessary, replace with an identical bag.**

### WARNING

Before **raising cover**, disengage mower, turn ~~off engine~~ **and remove** the key. Do not remove **catcher tube from** adapter or bag while **mower** is running.

### WARNING

~~When operating on slopes, use front counterweight.~~ **Never operate on slopes greater than 30% (16.7°).**

## INSTALLATION ■ BLOWER ASSEMBLY, 36" MOWER

1. Remove the mower deflector by removing two carriage bolts, lockwashers and nuts. Save this hardware for use when blower is removed for side discharge.
2. Install strap (A, figure 1) as follows:
  - a. Drill a  $\frac{9}{32}$ " hole for large spacer (B). Use the supplied template on the last page. Align template with deflector mounting holes (C).
  - b. Install strap (A, figure 1) to deck with hardware shown in figure 2.
  - c. Check the installation. The strap should be secured to deck with locknut (D, figure 1). The small spacer (E) should be above the strap. The large spacer (B) should be between strap and mower deck.
3. The belt stop (A, figure 3) and hardware must be relocated to hole (C) shown. Install self-tapping screw (B), which was removed, in place of belt stop.

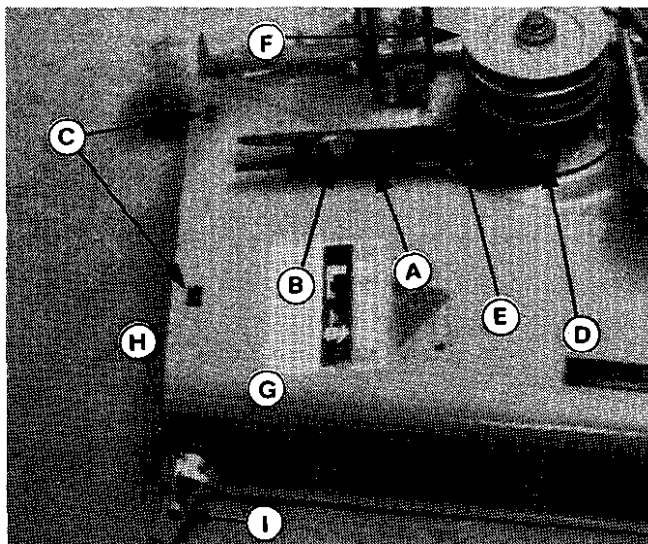


Figure 1.

- A. Strap  
 B. Large spacer  
 C. Holes, Deflector Mounting  
 D. Nut, Center Lock, 5/16

- E. Small Spacer  
 F. Pulley  
 G. Wing Nut  
 H. Cup  
 I. Locknut, 5/16

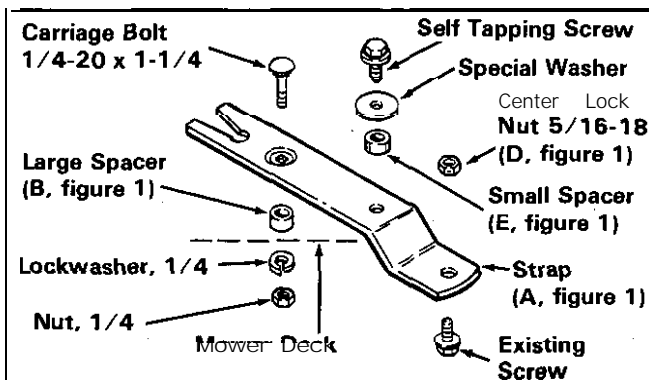


Figure 2.

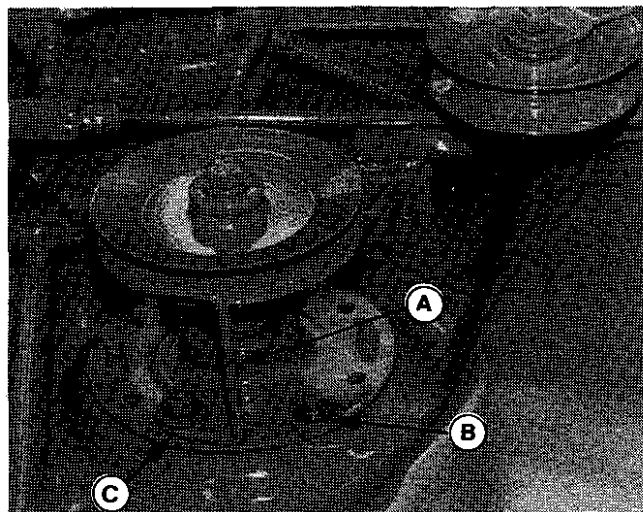


Figure 3.

- A. Belt Stop  
 B. Self-Tapping Screw  
 C. New Belt Stop Location

### NOTE

To ease installation, engage PTO lever, so that brake is away from pulley.

4. Remove the existing right-hand arbor pulley and install the new double-groove pulley (F, figure 1) with existing capscrew, lockwasher and washer. Torque to 55 to 70 ft. lbs. Do not reinstall deck-drive belt at this time.
5. Install the baffle (B, figure 4) as shown. Install retainer nut (E) in baffle, then screw the  $\frac{1}{4}$ " whizlock screw (A) into retainer nut. Insert  $\frac{1}{4}$ " carriage bolt (C) from inside deck and install lockwasher and nut (D).

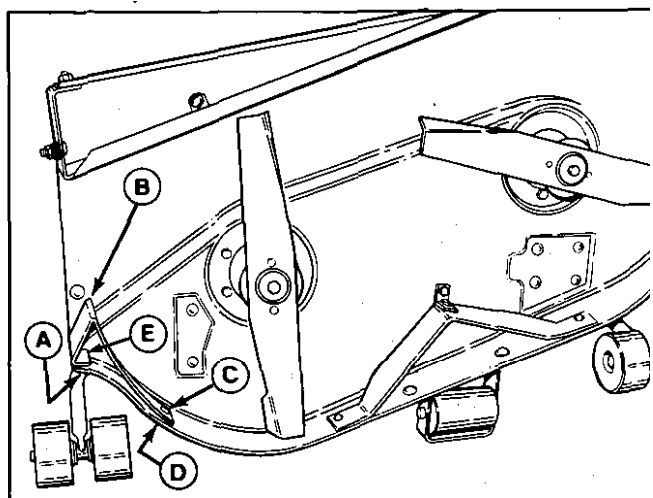


Figure 4.

- A. Screw, Whizlock.  $\frac{1}{4}$ -20 x  $\frac{1}{2}$   
 B. Baffle.  
 C. Bolt, Carriage,  $\frac{1}{4}$ -20 x  $\frac{5}{8}$   
 D. Lockwasher and Nut,  $\frac{1}{4}$   
 E. Retainer Nut

6. Install wing nut (G, figure 1) assembly as follows. Insert  $5/16$ -18 x 2-1/2 capscrew and  $5/16$  flat washer from inside the deck. Place the cup (H) onto the capscrew and install  $5/16$  lockwasher and  $5/16$  nut. (Figure 12 shows correct position of cup.) Thread the wingnut (A, figure 6) onto capscrew and install the  $5/16$  locknut (D) flush with end of screen.
7. The belt retainer (A, figure 5) must be positioned correctly. Loosen the nut (B) and position the leg (C) so it is against the side of the idler arm (D). Then, tighten the nut (B).

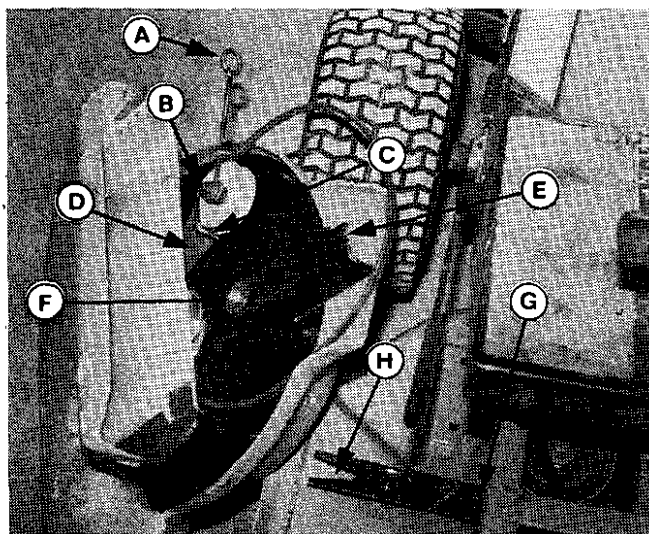


Figure 5.

- A. Belt Retainer
- B. Nut
- C. Leg
- D. Idler Arm
- E. Notch
- F. Spacer
- G. Small Spacer
- H. Strap Notch

8. Install the blower assembly (figure 5) onto mower deck as follows. Note that the notch (E) will be placed onto small spacer (G) on top of the strap. The blower assembly spacer (F) will fit into the strap notch (H).
  - a. Slide the blower into position as shown in figure 6. and tighten the wing nut (A).
  - b. Push the belt retainer (B, figure 6) to provide slack and install belt onto lower groove in pulley (C). (Rotate pulley while placing belt on.)
9. Place the deck drive belt in the upper groove of the pulley (C, figure 6).
10. This completes installation of the blower assembly. Install the tube and collection system by following directions provided in this manual. To remove the blower assembly, see "Operating Without Collection System."

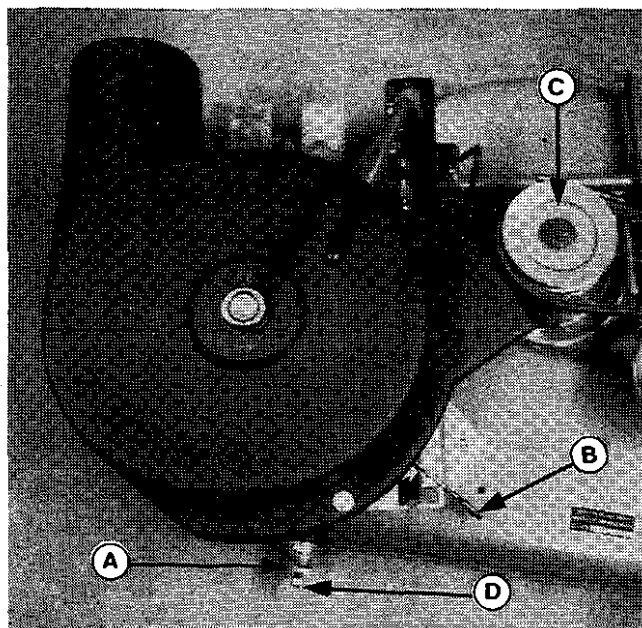


Figure 6.

- A. Wing Nut
- B. Belt Retainer
- C. Pulley
- D. Locknut,  $5/16$

## INSTALLATION - BLOWER ASSEMBLY, 42" & 48" MOWER

1. Remove the right-hand arbor cover (A, figure 7) by removing bolts, washers and **nuts** in front that hold cover to deck. Also, remove nut (B) and washers that **secure** rear tab to arbor.
2. Slip mower belt off the right hand pulley. Remove the pulley from the arbor by removing **capscrew** and washers. Save washers for re-installation. Use wood block to prevent blade from turning

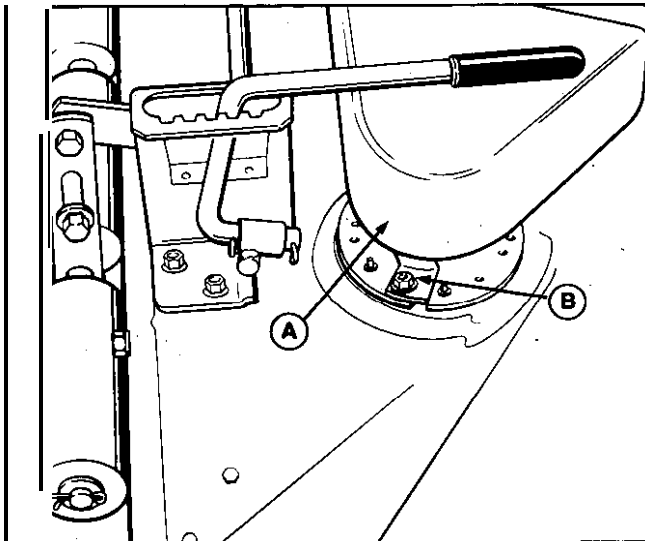


Figure 7.

A. Arbor Cover                      B. Nut Cover

3. Remove brake spring or spring anchor (if equipped) and two self-tapping screws from arbor. Install two 5/16-18 x 1-1/2 capscrews (A, figure 8).

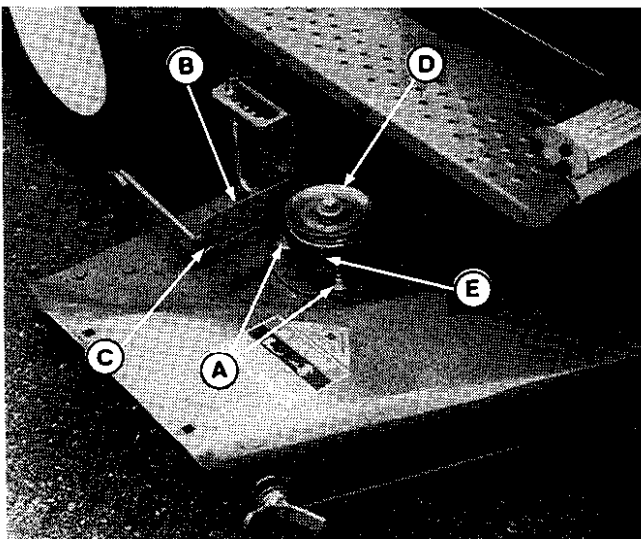


Figure 8.

A. Capscrews                      D. Arbor Pulley  
B. Arbor Bracket                E. Belt Stop. Front  
C. Notch

4. Before installing arbor **bracket** (B, figure 8), remove washer from underneath blade brake bracket (rear capscrew). Arbor bracket is same thickness as washer and will replace washer.

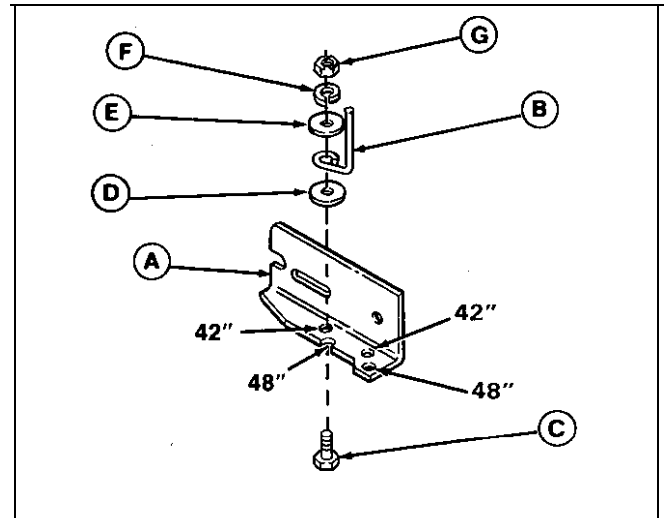


Figure 9A. Arbor Bracket and Belt Stop

A. Arbor Bracket  
B. Belt stop                      E. Large Washer  
C. **Capscrew**                      F. Lockwasher  
D. spacer                        G. Nut

5. Install, the arbor bracket (A, figure 9A) and rear belt stop (B) as shown. Note the different holes for the 42" and 48" mowers. Tighten **nut** (G) snug only-belt stop will be adjusted in step 8.
6. Install the front belt stop (A, figure 9B) (onto 5/16-18 x 1-1/2 capscrew installed in step 3) as shown. If removed, reinstall brake spring **or** spring anchor (F) before flange nut (G). Tighten nut (E) snug only-belt stop will be adjusted in step 8.

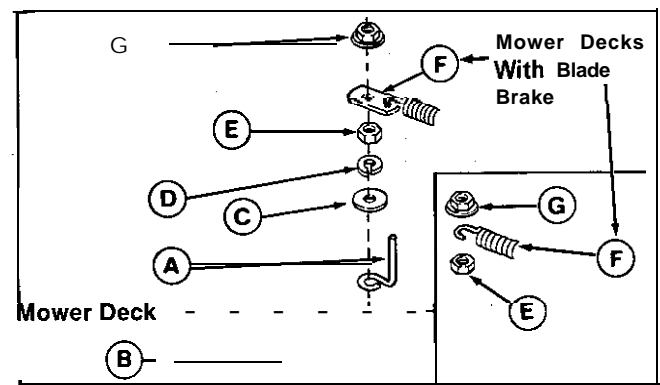


Figure 9B. Front Belt Stop

A. Belt Stop  
B. **Capscrew**                      E. Nut  
C. Large Washer                F. Spring or Spring Anchor  
D. Lockwasher                G. **Flange** Locknut

7. Install new arbor pulley (D, figure 8) with **hub down**. Use new  $7/16-14 \times 2-1/4$  **capscrew** and washers removed in step 2. Torque to 55 to 60 ft. lbs. Use wood block to prevent blade from turning. It may be necessary to add washer(s) (two provided) underneath the new pulley to properly align brake pad and bottom groove. Refer to figure 9C.
8. Slip the mower drive belt onto the lower groove of the new pulley (D, figure 8). With the belt engaged, adjust the belt stops  $1/8$ " from belt. Tighten the hardware.
9. If mower is equipped with blade brake, adjust the brake after installing new double groove pulley as follows:
  - a. Engage the PTO lever. Be sure that mower drive belt tension is correctly adjusted (see Operator's Manual).
  - b. Inspect the brake pad (A, figure 9C) to V-pulley (B) **clearance**. With PTO engaged, clearance should be  $1/16$  inch as shown in figure 9C.
  - c. If adjustment is required, turn adjusting nuts (A, figure 9D) until proper clearance is reached.

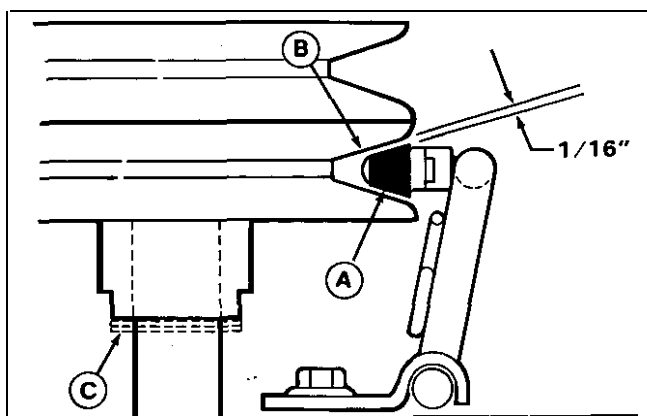


Figure 9C. B. Bottom Groove Double Pulley  
A. Brake Pad  
C. Washers (If Required)

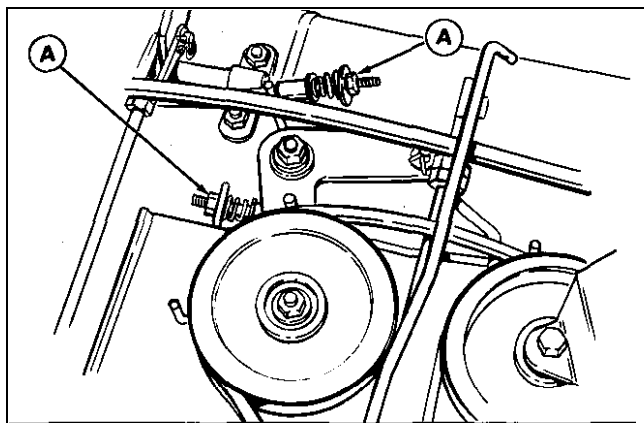


Figure 9D.  
A. Blade Brake Adjustment Nuts

- IO. The baffle (E, figure 10) is installed in the blower housing for use with 42" mower. For use with 48" mower, remove the baffle and install in hole marked 48"...

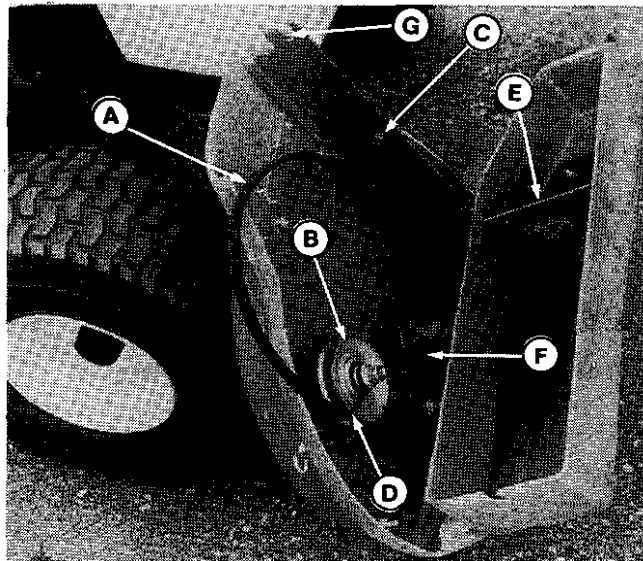


Figure 10.  
A. Blower Drive Belt  
B. Idler Pulley  
C. Spacer  
D. Belt Guide  
E. Baffle  
F. Driven Pulley  
G. Notch

#### NOTE

On 42" and 48" mowers, the **capscrew** installed in next step is used in the hole occupied by a screw held in place by a retaining nut. (This screw secured the right-front corner of the arbor cover.) Remove this screw from mower deck by tapping out with a hammer or prying off the retaining nut.

- II. Install the belt cover (B, figure II) with hardware shown. Items E through M. (Figure I I shows blower housing but it is not installed at this point of the procedure.)
12. Install wing nut (N, figure 11) as follows:
  - a. Remove existing hardware from front end of stone guard.
  - b. From inside deck, install new  $5/16-18 \times 2-1/4$  carriage bolt (F, figure 12). Then install the cup (A, figure 12),  $5/16$  lockwasher (B), and  $5/16$  nut (C). Tighten the nut.
  - c. Thread the wing nut (D) far enough onto the screw so that the  $5/16$  locknut (E) can be threaded on flush with the end of screw.

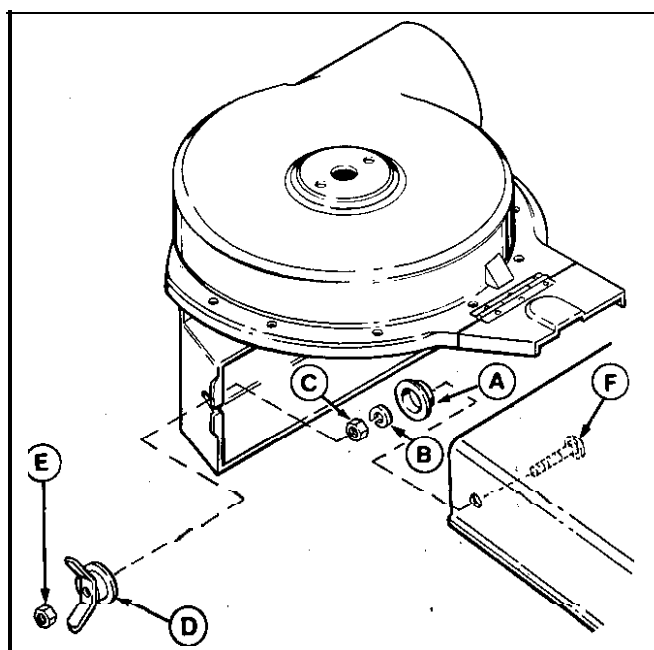
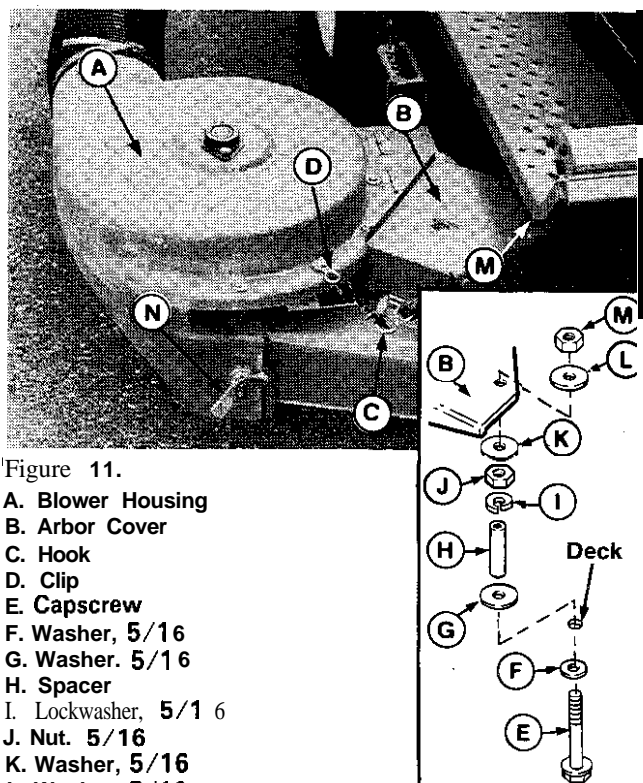


Figure 12.

- A. Cup
- B. Lockwasher, 5/16
- C. Nut, 5/16
- D. Wing Nut
- E. Locknut, 5/16
- F. Carriage Bolt

13. Install the new baffle (A, figure 13) in deck on stone guard using existing hardware. Hardware may be installed with nut to inside or nut to outside.

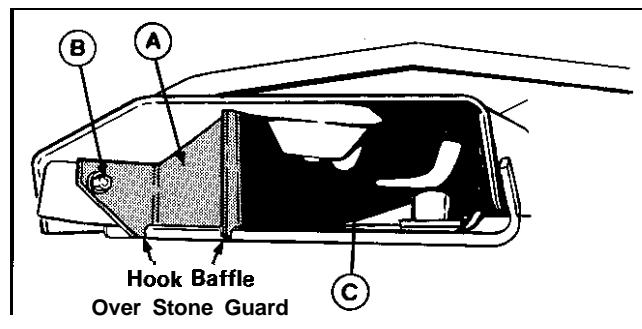


Figure 13.

- A. Baffle B. Carriage Bolt C. Mower Discharge Opening

14. Install the blower assembly as follows.

- a. Pivot cover (B, figure II) away to expose the arbor.
- b. Align the notch (G, figure IO) with spacer on arbor bracket. Align spacer (C, figure 10) with otch (C, figure 8) on arbor bracket. Slide the assembly into place as shown in Figure 14, while aligning front notch between cup and wing nut (D, figure 12). Tighten wing nut.
- c. Place mower in low cut position. Raise the flap (A, figure 15) and install the blower drive belt(D) in the top groove of the pulley(B). (Pivot cover B, figure I I, away to expose flap.)
- d. Rotate the pivoting cover (B, figure I I) into place and attach the hook (C) to the clip (D) on the housing.

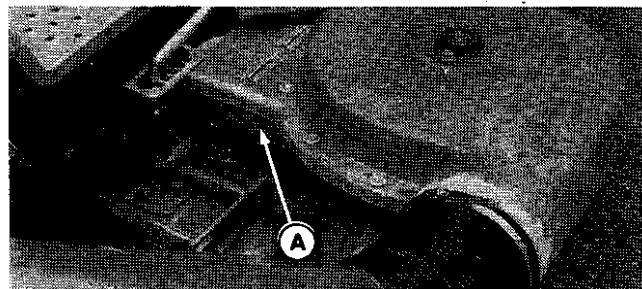


Figure 14.

- A. Arbor Bracket

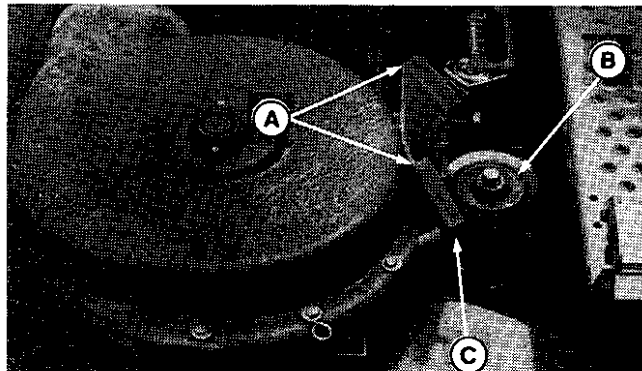


Figure 15.

- A. Flap
- B. Pulley
- C. Belt,

## INSTALLATION AND OPERATION - CART COLLECTOR

### ASSEMBLY

1. Remove all parts from inside the cart's box. Open the bag of parts and sort the fasteners into groups for **easier assembly** of the cart (figure 16).
2. Turn cart box on one side.
  - a. Bolt U-bracket to bottom of box with two  $5/16 \times 3/4$  long round head bolts. Secure with two  $5/16$  lockwashers and nuts.
  - b. Bolt latch handle to front side of box. Place one  $5/16 \times 1$  long hex bolt with  $5/16$  flat washer through the inside of the box. Next place a  $5/16$  flat washer, latch handle,  $5/16$  flat washer, spring washer (side with grooves on outside), and locknut. Tighten the locknut until the latch handle **moves** slowly.
3. Bolt swivel wheel to the H-frame.
  - a. Place the head of the swivel (end with four slotted holes) **inside** the H-frame (side with the ends bent upward).
- b. Align the holes and place four  $3/8 \times 1$  long hex bolts with  $3/8$  flat washers through the head of the swivel and frame.
- c. Secure with four **lockwashers** and nuts.
4. Turn cart's box upside down and install H-frame to U-bracket.
  - a. Align the two ends of the H-frame (end with the swivel wheel attached) to the U-bracket and secure with two  $1/2 \times 1-1/4$  long hex bolts and  $1/2$  locknuts.
  - b. **DO NOT over** tighten the locknuts. The box pivots at this point for dumping.
5. Turn latch handle **to** lock the H-frame to the cart's box and turn **cart upright**.

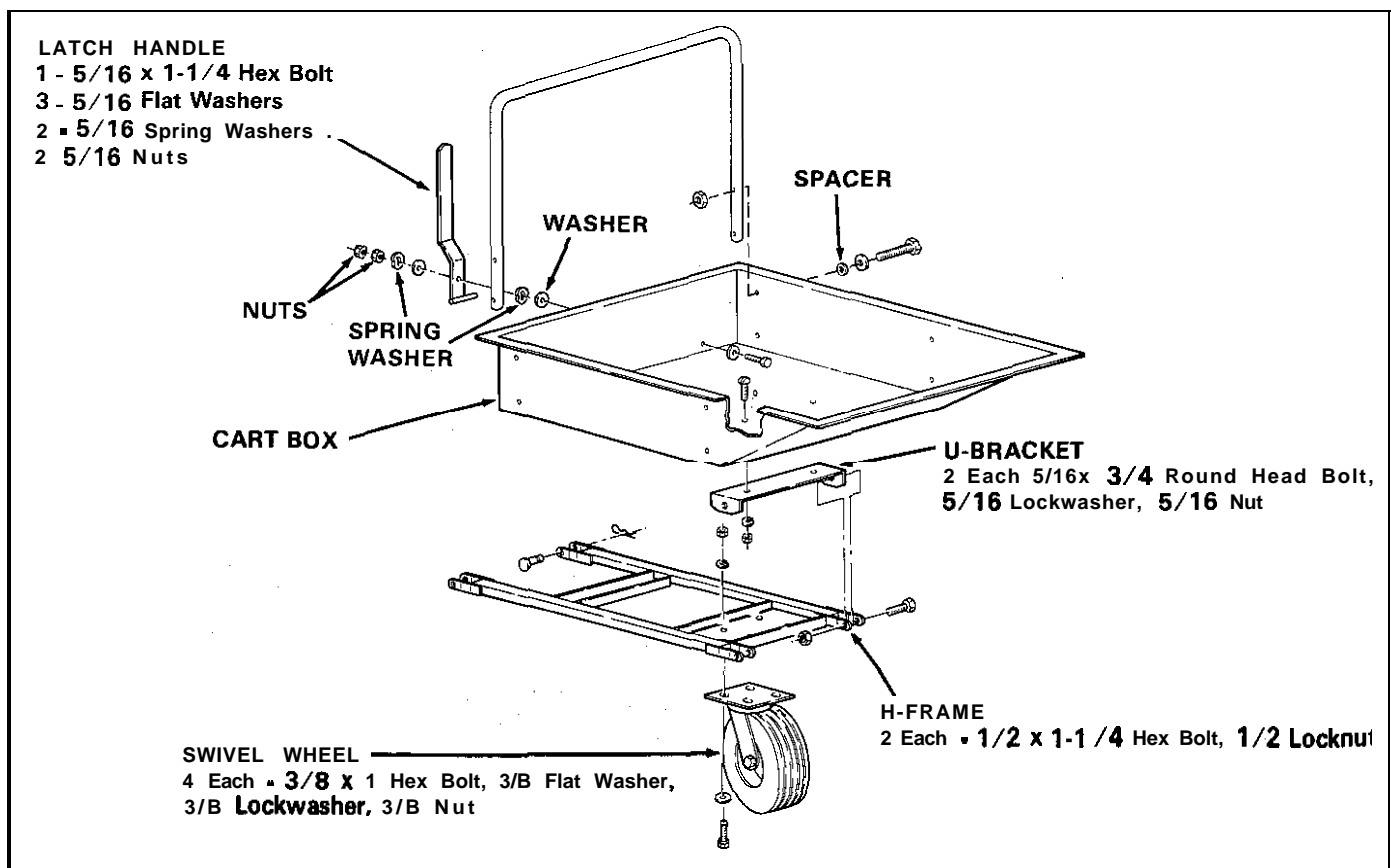


Figure 16.



## BRACKET INSTALLATION

The Cart Collector attaches to a mounting bracket, which is bolted to the tractor's back plate. The same bracket is used on the riding mowers and the lawn tractors. Once bolted in place, the bracket never needs to be removed. For lawn tractors, see Section A. For tractors with 3 forward speeds, see Section B.

### Section A: Bracket Installation on Lawn Tractor

1. Remove the **drawbar** plate from the back plate of the lawn tractor.
2. Install the bracket (figure 17) to the back plate through the same holes where the **drawbar** plate was bolted. Use the **three 3/8-16 x 1 hex bolts and locknuts** (A, figure 18).

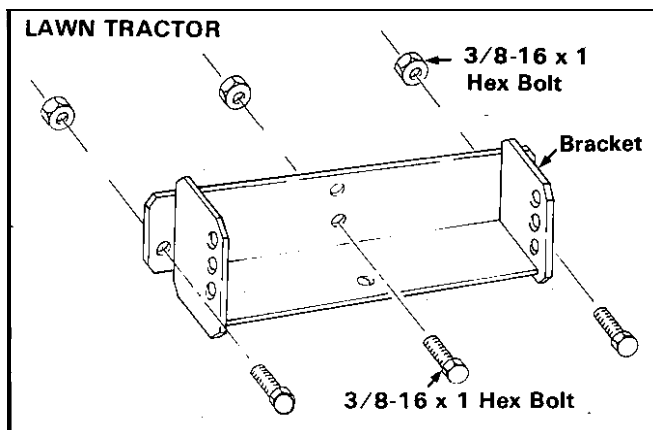


Figure 17.

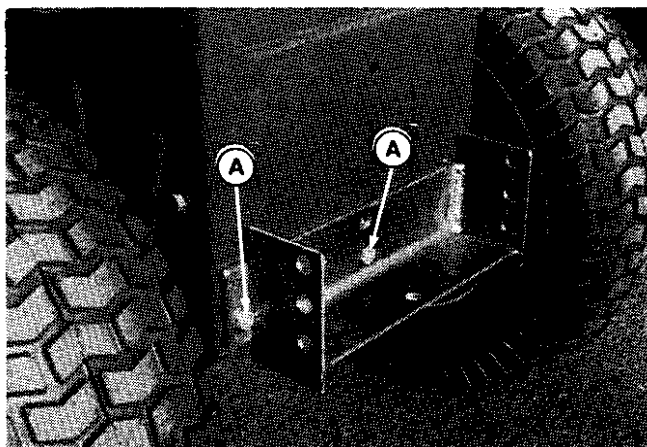


Figure 18.

A. Hardware

### Section B: Bracket Installation on Tractor with 3 Forward Speeds and 23" Diameter Rear Tires

1. Install the bracket to the back plate as shown in figure 19, using three 3/8-16 x 1 hex bolts and locknuts. In the top, center hole (A) install a 3/8 x 3/4 bolt and 3/8 locknut to prevent bracket being used as a **drawbar**.

## **A** CAUTION

Do not remove the existing drawbar. Do not use the bracket as a drawbar.

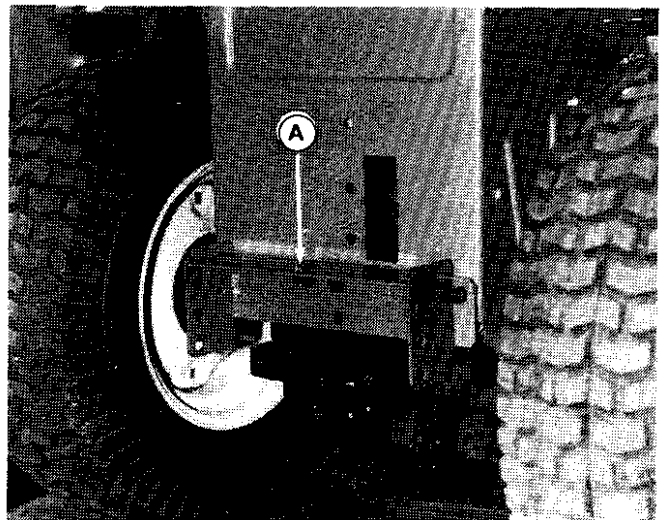


Figure 19.

A. Top, Center Hole

2. Install the decal, part number 1700346 (see first page) to top of bracket beside hole (A, figure 19).

## ASSEMBLY OF FRAME AND COVER

1. Install the frame (A, figure 20) at four locations (B) with 5/16-18 x 1-1/2 capscrew, washer and nut. Install spacers (F) at top **capscrew** on each side (see figure 8).
2. Attach the bracket (C, figure 20) with two 5/16-18 x 1-3/4 bolts (D), washers and nuts. Attach strap (E) with lower set of hardware.

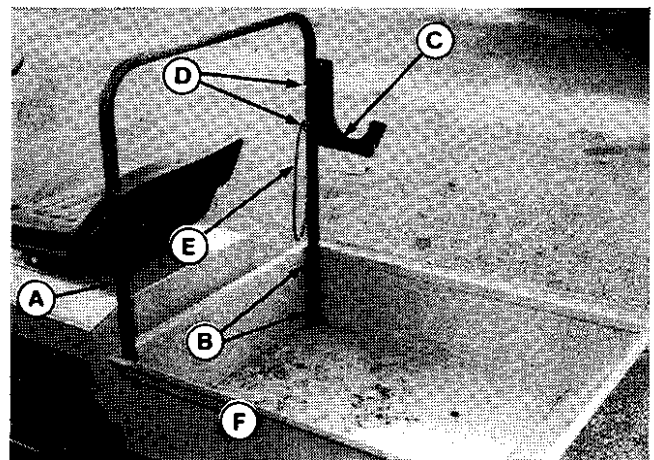


Figure 20.

A. Frame

B. Fastener Locations

C. Bracket

D. Bolt

E. Strap

F. Spacer

3. The support rod and frame rod must be inserted into the cover (A, figure 21) as follows.
  - a. The frame rod (C, figure 21) must be inserted through the bottom sleeve of the cover so that the two bent ends extend out openings, which are next to the cord loops (D). The frame rod position is indicated by dotted line (B, figure 22).

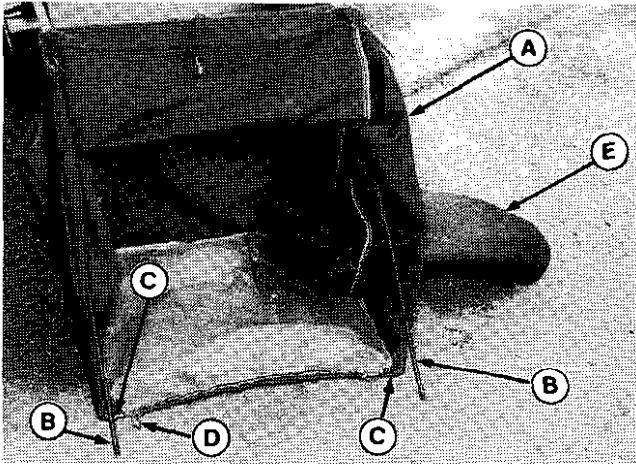


Figure 21.

- |                |               |
|----------------|---------------|
| A. Cover       | D. Cord Loops |
| B. Support Rod | E. Elbow      |
| C. Frame Rod   |               |

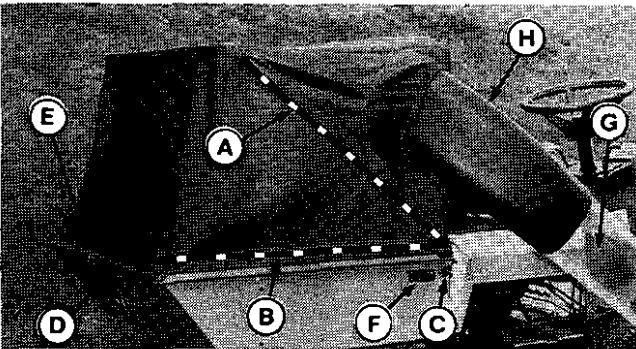


Figure 22.

- |                         |                   |
|-------------------------|-------------------|
| A. Support Rod Location | E. Clip           |
| B. Frame Rod Location   | F. Decal, Warning |
| C. Cord Loop            | G. Tube           |
| D. strap                | H. Elbow          |

- b. The support rod (B, figure 21), which has eyebolt ends, must be threaded through the sleeve inside the cover. The position is indicated by dotted line (A, figure 22).

#### NOTE

When you pick up cover to place over the frame, be sure support rod (B, figure 21) is inside frame rod (C).

4. Insert the elbow (E, figure 21) into the cover opening.
5. Pick up the cover and place down onto the frame (A, figure 20) inserting the elbow (A, figure 23) into the bracket (B) (shown without cover for clarity). Pull the rubber strap (C) over the elbow and hook into bracket as shown.

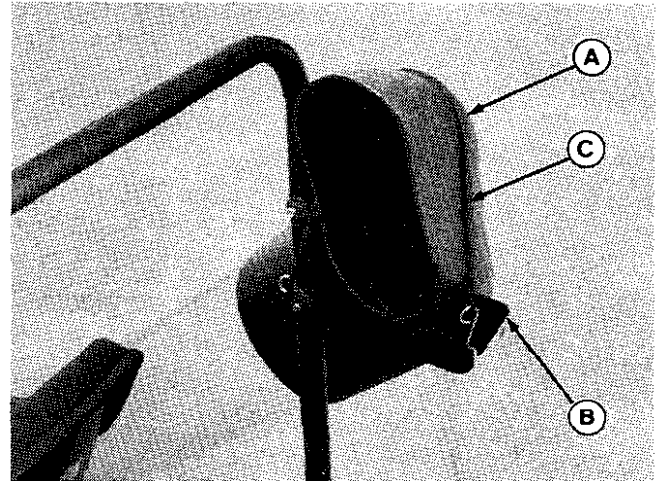


Figure 23. (Shown without cover for clarity.)

- |            |
|------------|
| A. Elbow   |
| B. Bracket |
| C. strap   |

6. On each side, place the eyebolt end of the support rod (B, figure 21) onto the frame rod, then insert frame rod (A, figure 24) through the frame (B). Insert clip (C) through frame rod to secure.
7. Insert an "S" hook to each end of the strap (D, figure 22). Hook one end through washer (E, figure 22) and pinch closed with a pliers.
8. Pull the cover down so it appears as in figure 22. To secure the front, pull the cord loops (C) onto the spacers. To secure the rear, hook the strap (D) onto back of cart as shown.
9. Install warning decal (F, figure 22) so it is visible from right-hand side. Make sure surface is clean. Remove backing paper and tack edge of decal in position. Then apply with heel of hand, smoothing out bubbles. The edge of a ruler can also be used.

#### A WARNING

It is important for the operator's safety, that the warning decal be installed.

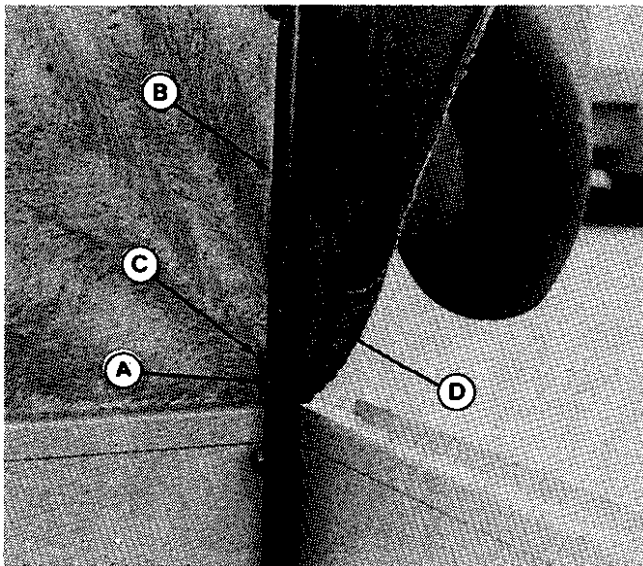


Figure 24.

A. Frame Rod  
B. Frame

C. Clip  
D. Support Rod

## Maintenance

### **A** WARNING

The cart **cover** is subject to wear and deterioration. Check the **cover** frequently. Use an approved replacement cover.

The **COVER** can be rinsed with a hose when dirty. A dirty cover will inhibit the fast flow of grass clippings into the cover. Do not leave grass or leaves in the **cart** for a long period of time.

## Operation'

### **A** WARNING

For safety reasons grass and debris are to be removed only after engine is shut off, key removed, and all moving parts stopped.



### WARNING

Before raising cover, shut off engine, remove key, and set parking brake.

### BEFORE OPERATION

Clear the lawn of all sticks, stones, wire and other debris which may be caught or thrown by the mower blades.

Clean the tube with mild detergent (other products may damage tube). The flow of grass can be seen through the tube while moving.

Check grass condition. If wet, wait until later in the day. If grass is wet plugging may occur.

For efficient bagging, air circulation under the mower deck, through the chute and into the bag is very important. For this reason, you should remove grass and debris from underside of mower deck, discharge chute and **cover**.

The tube and elbow can be removed as an assembly for cleaning.

## INSTALLATION OF TRACTORS GRASS CHUTE TO CART COLLECTOR

1. Attach the hose to the blower housing with clamp (A, figure 25) and tighten with a screwdriver or wrench.
2. Insert the elbow (H, figure 22) onto the tube.

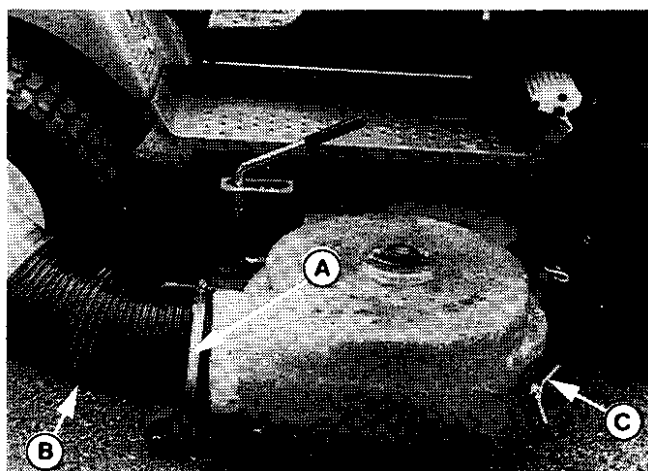


Figure 25.

A. Clamp  
B. Hose

C. Wing Nut

## OPERATION - WITH CART COLLECTOR

### **A** WARNING

Shut the tractor's engine off before attaching, adjusting, or disconnecting the **cart** collector. Be sure the complete **cart** collector is in place before operating the tractor's mower.

### **A** WARNING

Do not tow the cart collector on slopes greater than 15 degrees. Mow up and down the face of slopes; never **across** the face of any slope.

1. Attaching:
  - a. Attach the cart to the tractor by aligning the two ends of the H-frame to the holes in the bracket (figure 26). Use the holes that will make the **cart** level. Secure the cart to the bracket with **two clevis pins** and **hairpin cotters**.
  - b. Attach the cart to the bracket at **points "B" or "C"**.

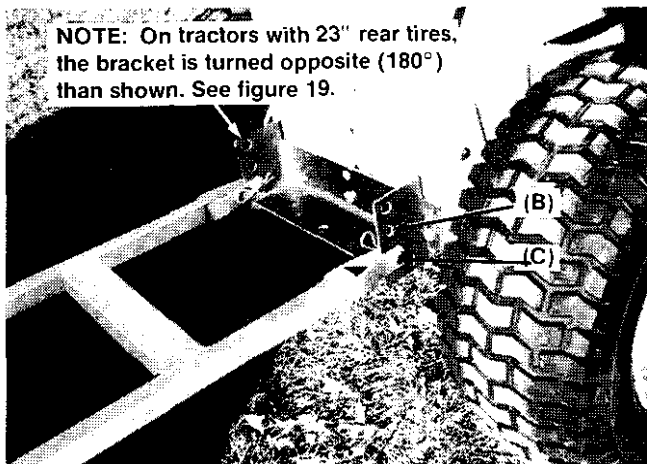


Figure 26.

#### DUMPING GRASS AND LEAVES

1. Back the tractor to the desired place for unloading. Shut the tractor's engine off before getting off the tractor's seat.
2. Unhook the strap from the door lock and raise the cover assembly to the open position. Lock the cover in place by hooking the strap to the locking tab (figure 27).

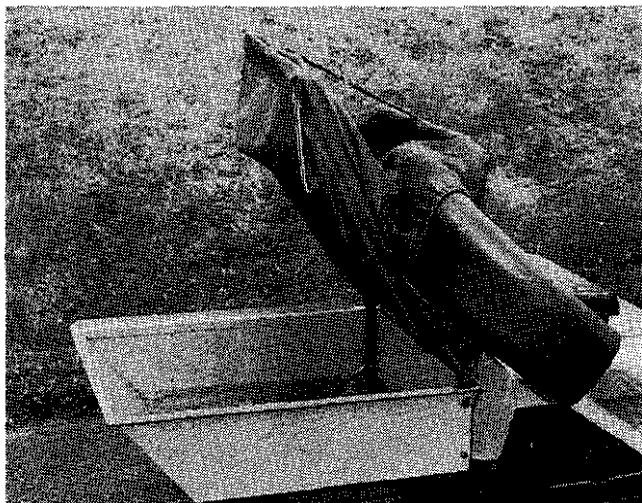


Figure 27.

3. Move the latch handle to the unlock position and dump **the** cart's box. The connecting tube will slide off the elbow and the cart's box will dump **at** a 90 degree angle for quick unloading.
4. If bagging the grass clippings is desired, the grass can be pulled from the cart at the curve side into a plastic lawn bag. Also, the grass can be dumped onto a tarp for throwing into a trailer.

#### **A** WARNING

For safety **reasons** **grass** and debris **are** to be removed only after engine is shut off, key removed, and **all** moving **parts** stopped.

#### **A** WARNING

Before **raising** cover, shut off engine, remove key, and set **parking** brake.

#### **A** CAUTION

Do not **haul** sharp **objects** that may **puncture** the cover.

5. The cover can be removed entirely from the cart. Once the cover is removed, the **cart** can be used for hauling bulky loads.

#### **A** CAUTION

Be sure to store the **cover** in a safe place where it cannot be torn.

#### OPERATING WITHOUT COLLECTION SYSTEM - 42" & 48" MOWERS

#### **A** WARNING

When **blower** assembly is removed from **mower** deck, the deflector must be installed **as** described in this section.

To operate without the grass collection system, remove the blower assembly by removing the front wing nut (C, figure 25) and slipping belt off of the pulley. Re-install the mower deflector (figure 28) and the original hardware. Install **two** carriage bolts from bottom and **install** washers and nuts (A). Install the front washers (B) and nut (C). Be sure flat washers and **lockwashers** are used at all three locations.

Pivot the **cover** (A, figure 29) **over** the arbor pulley and hook into position.

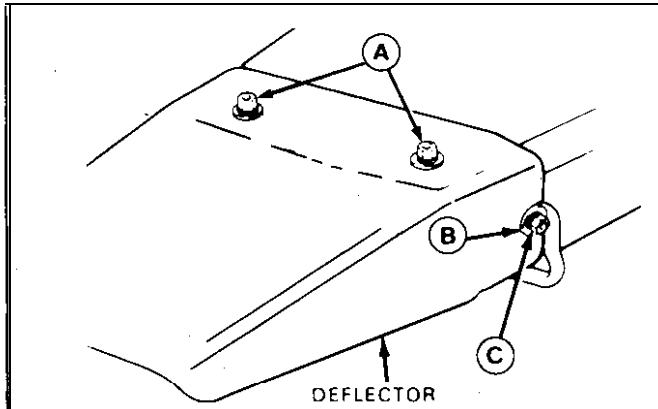


Figure 28.

- A. Nut
- B. Washer
- C. Nut

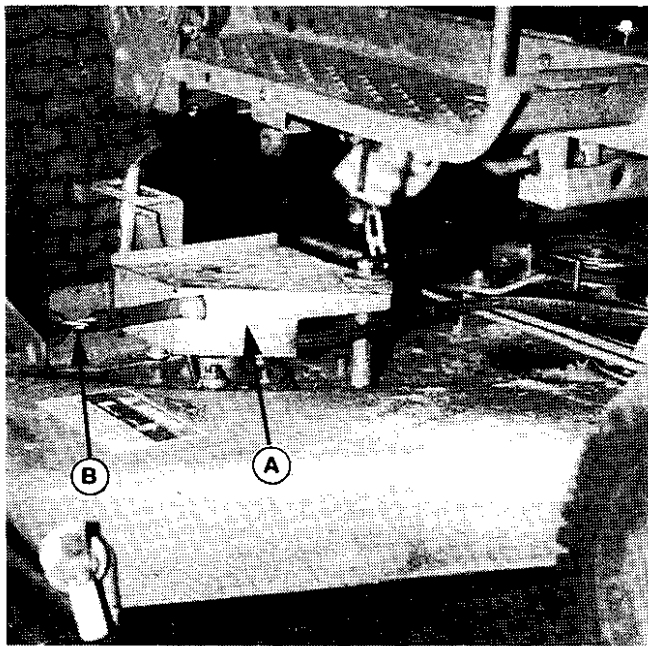


Figure 29.

- A. Cover
- B. Hook

#### OPERATING WITHOUT COLLECTION SYSTEM - 36" MOWERS

To **remove** the blower assembly, first loosen the front wing nut. To provide belt slack, push the belt **retainer** (B, figure 6). Slip the belt off the pulley. The blower can be removed from deck.

Install the mower deflector (A, figure 30) with two carriage bolts, lockwashers and nuts.

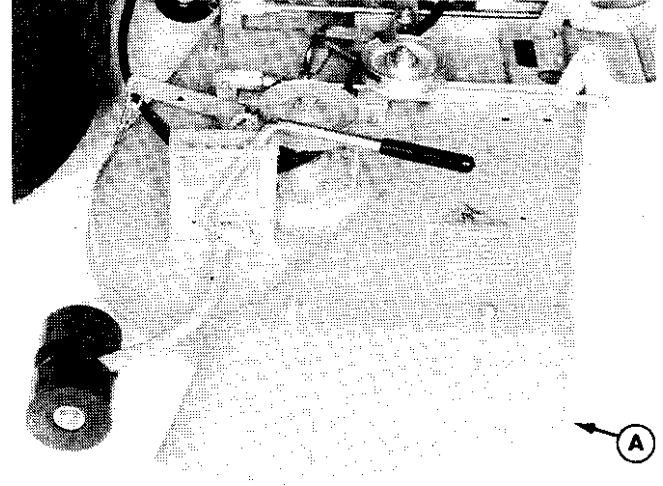


Figure 30.

- A. Deflector



## EDGE OF DECK

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← Align with deflector mounting holes. →



**TEMPLATE FOR DRILLING MOUNTING HOLE  
FOR 36" TURBO VAC.**



**Drill 9/32" Dia. Hole**

